

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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RMB2S **THRU** RMB6S

Features

- Surface Mount Package
- Glass Passivated Diode Construction
- Fast Recovery, Low Switching Loss
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
 Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates
 Compliant. See ordering information)

laximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

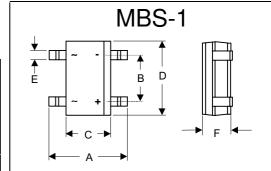
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RMB2S	RMB2S	200V	140V	200V
RMB4S	RMB4S	400V	280V	400V
RMB6S	RMB6S	600V	420V	600V

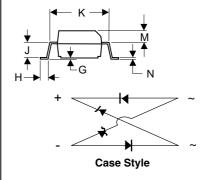
Electrical Characteristics @ 25° Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.5A ⁽¹⁾ 0.8A ⁽²⁾	T _A = 30°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_{F}	1.25V	$I_{FM} = 0.4A;$ $T_A = 25^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 100μA	$T_A = 25^{\circ}\mathbb{C}$ $T_A = 125^{\circ}\mathbb{C}$
Typical Thermal Resistance Per Leg	$egin{aligned} R_{ hetaJA}\ R_{ hetaJA}\ R_{ hetaJL} \end{aligned}$	85°C/W ⁽¹⁾ 70°C/W ⁽²⁾ 20°C/W ⁽¹⁾	PC board with 12mm ² copper pads
Typical Junction Capacitance	CJ	13pF	Measured at 1.0MHz, V _R =4.0V
Maximum Reverse Recovery Time RMB2S-RMB4S RMB6S	t _{rr}	150ns 250ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Rating For Fusing	l ² t	5.0A ² s	t<8.30ms

- (1) On glass epoxy P.C.B. mounted on 0.05 x 0.05"(1.3 x 1.3mm) pads
- (2) On aluminum substrate P.C.B. with an area of 0.8" x 0.8"(20 x 20mm) mounted on 0.05 x 0.05"(1.3x 1.3mm) solder pad Notes:1.High Temperature Solder Exemption Applied,see EU Directive Annex Notes 7.

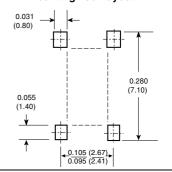
1/2 Amp Fast Recovery **Glass Passivated Bridge Rectifier** 200 to 600 Volts





DIMENSIONS						
	INC HES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.252	.276	6.40	7.00		
В	.095	.106	2.41	2.70		
С	.142	.165	3.60	4.20		
D	.179	.195	4.55	4.95		
Е	.019	.031	0.50	0.80		
F	.090	.106	2.30	2.70		
G	.002	.008	0.05	0.20		
Τ	.027	.043	0.70	1.10		
J	.058	.062	1.47	1.57		
K	.195	.205	4.95	5.21		
М	.039	.049	0.99	1.24		
Z	.006	.016	0.15	0.41		

Mounting Pad Layout





RMB2S thru RMB6S

Fig. 1 - Maximum Forward Current **Derating Curve** 0.8 Average Forward Rectified Current (A) 0.7 Aluminum Substrate 0.6 0.5 0.4 Glass Epoxy P.C.B 0.3 0.2 0.1 Resistive or Inductive Load 0 0 140 160 Ambient Temperature (°C)

Fig. 3 – Typical Instantaneous **Forward Characteristics**

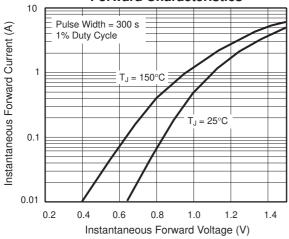


Fig. 5 – Typical Junction Capacitance

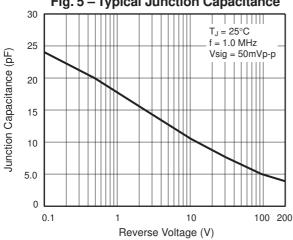


Fig. 2 – Maximum Non-Repetitive Peak **Forward Surge Current**

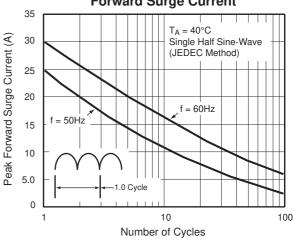
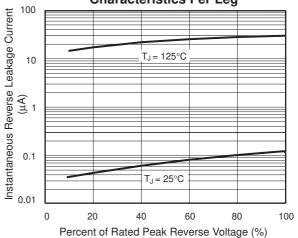


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg





Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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